

543,194

Rec'd PCT/PTO 21 JUL 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



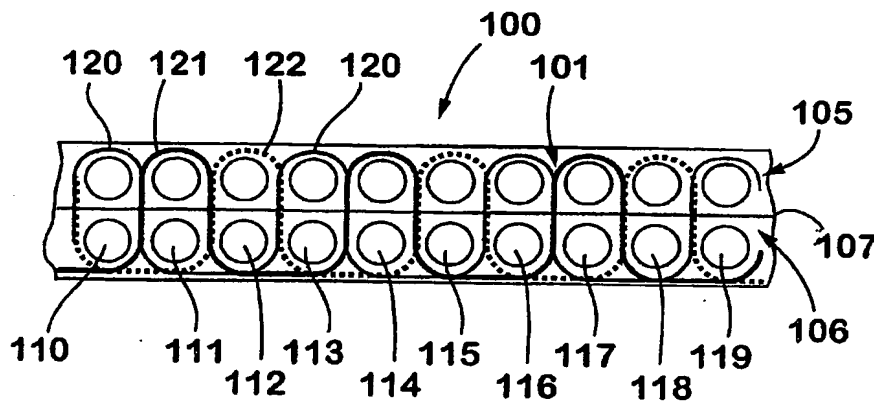
(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/061768 A1

- (51) International Patent Classification⁷: D03D 11/00, B65G 15/34
- (21) International Application Number: PCT/US2003/037015
- (22) International Filing Date: 18 November 2003 (18.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): MOL BELTING COMPANY [US/US]; 2532 Waldorf Court, Grand Rapids, MI 49544 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): MOL, Edward, T. [US/US]; 12374 24th Avenue, Marne, MI 49435 (US).
- (74) Agent: BAIR, Joel, E.; McGarry Bair PC, 171 Monroe Ave. NW, Suite 600, Grand Rapids, MI 49503 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: INTERWOVEN BELT FABRIC



(57) Abstract: An interwoven belting fabric (100, 200) for use in conveyors, including treadmills, is constructed of a dual layer of weft yarns (105, 106, 206, 207) comprising adjacent couplets (110-119, 210-219), a plurality of middle warp yarns (107, 208), and a plurality of binder warp yarns (120-122, 220-222). Each middle warp yarn is heat set under tension so that it is sufficiently straight and inelastic to bear loads under tension without twisting or stretching.

WO 2005/061768 A1

INTERNATIONAL SEARCH REPORT

International Application No.

PC 03/37015

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 D03D11/00 B65G15/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 D03D B65G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
 EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 376 440 A (KOSEKI TOMOHIRO) 27 December 1994 (1994-12-27)	1,3
Y	column 2, line 66 - column 3, line 35; figure 1	2,4,5
X	US 3 872 895 A (TAKADA TAKEZO) 25 March 1975 (1975-03-25)	1
Y	GB 826 011 A (JOHN LEWIS; RUBBER IMPROVEMENT LTD) 23 December 1959 (1959-12-23) abstract	2
Y	EP 0 278 769 A (SCAPA GROUP PLC) 17 August 1988 (1988-08-17) the whole document	4,5
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

21 July 2004

Date of mailing of the international search report

28/07/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Pussemier, B

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/37015

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/35785 A (ANDRESEN FREDERIC PEMBER ; GOODYEAR TIRE & RUBBER (US); MAGUIRE DAVID) 22 June 2000 (2000-06-22) the whole document	1,3
A	US 2002/142687 A1 (NAGAWA AKIRA ET AL) 3 October 2002 (2002-10-03) the whole document	1,3
A	US 6 328 077 B1 (MOL EDWARD T) 11 December 2001 (2001-12-11) cited in the application the whole document	1-5

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/03/37015

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5376440	A	27-12-1994	JP 6041843 A	15-02-1994
US 3872895	A	25-03-1975	NONE	
GB 826011	A	23-12-1959	NONE	
EP 0278769	A	17-08-1988	AU 606385 B2	07-02-1991
			AU 1168888 A	18-08-1988
			CA 1311400 C	15-12-1992
			EP 0278769 A2	17-08-1988
			FI 880672 A	14-08-1988
			GB 2201695 A ,B	07-09-1988
			JP 63295786 A	02-12-1988
			NZ 223511 A	26-07-1990
			US 4870998 A	03-10-1989
			ZA 8800999 A	10-08-1988
WO 0035785	A	22-06-2000	WO 0035785 A1	22-06-2000
			AU 759242 B2	10-04-2003
			AU 1726599 A	03-07-2000
			BR 9816086 A	14-08-2001
			CA 2354020 A1	22-06-2000
			EP 1175358 A1	30-01-2002
			US 6427728 B1	06-08-2002
			ZA 9907525 A	07-06-2000
US 2002142687	A1	03-10-2002	JP 3459185 B2	20-10-2003
			JP 2000185624 A	04-07-2000
US 6328077	B1	11-12-2001	AU 1810100 A	22-05-2000
			CA 2349553 A1	11-05-2000
			EP 1133421 A1	19-09-2001
			WO 0026067 A1	11-05-2000